FILE NOTATIONS	
Entered in NID File	Checked by Chief CKB
Entered On S.R. Sheet	그는 사람들이 있는 그들도 회에게 하는 이렇는 사람들이 되었다. 그리는 사람들이 함께 하는 바람들이 바람이 나는 사람들이 얼마나를 다 되었다.
Location Map Pinned	Copy NID to Field Office Approval Letter
Card Indexed	가는 사람들은 사람들이 되었다. 그렇게 되었다면 보다 되었다면 보다 되었다. 그 사람들은 사람들이 되었다면 보다 보다 되었다면 보다 되었다
I W R for State or Fee Land	Disapproval Letter
COMPLETION DATA: Date Well Completed OW WW TA GW OS PA	Legation Inspected Bend released State of Fee Land
Driller's Log. Electric Logs (No.)	GR GR-N Micro
aual Suduel	formation density by entres por sites log
	The sould log

Ob 3301

Well site fals in M'Elmo Creek Bed-alecked on location with topogr. map. Request for exception to Rule #3 O.K. DevB.





Form approved. Budget Bureau No. 42-R1425.

UNITED STATES reverse side) DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY 14-20-603-2055 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Mavajo Tribal 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL 🗷 DEEPEN [PLUG BACK b. TYPE OF WELL MULTIPLE SINGLE OIL U 8. FARM OR LEASE NAME Wildcat OTHER 2. NAME OF OPERATOR Ismay Union Cil Company of California 3. ADDRESS OF OPERATOR 29-B3 82601 P. O. Box 1611 - Casper, Wyoming 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 2227' FSL and 2072' FWL (NW NW SW) Sec. 29, T-405, R-26E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 12. COUNTY OR PARISH | 13. STATE Cortez, Colorado approximately 30 miles west San Juan Utah 16. NO. OF ACRES IN LEASE 15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OB LEASE LINE, 17. NO. OF ACRES ASSIGNED TO THIS WELL 413' S of Line 1120 (Also to nearest drlg. unit line, if any) 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED, 3960 SE
OR APPLIED FOR, ON THIS LEASE, FT. 55501 Rotary 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 1693' OR. $\overline{23}$. PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT WRIGHT PER FOOT SETTING DEPTH SIZE OF HOLE SIZE OF CASING 1501 Cament to surface 48 17分 15001 200 mx 124# 24 5/8 55501 150 ax 7/81 Union Oil Company of California proposes to drill to approximately 5550 as a Ismay and Desert Creek Wildcat. Union Oil Company of California is requesting an exception to Rule No. C-3 on account of topography; Union Oil Company of California and its partners own an oil and gas lease within a radius of 660' from the location. Location cleared with Paul W. Burchell, Chief Petroleum Engineer for the Utah Conservation Commission. Coring and drill stem testing will be at the descretion of the wellsite geologist. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

ORIGINAL SIGNED BY

SIGNED W. I Mansbridge

(This space for Federal or State office use)

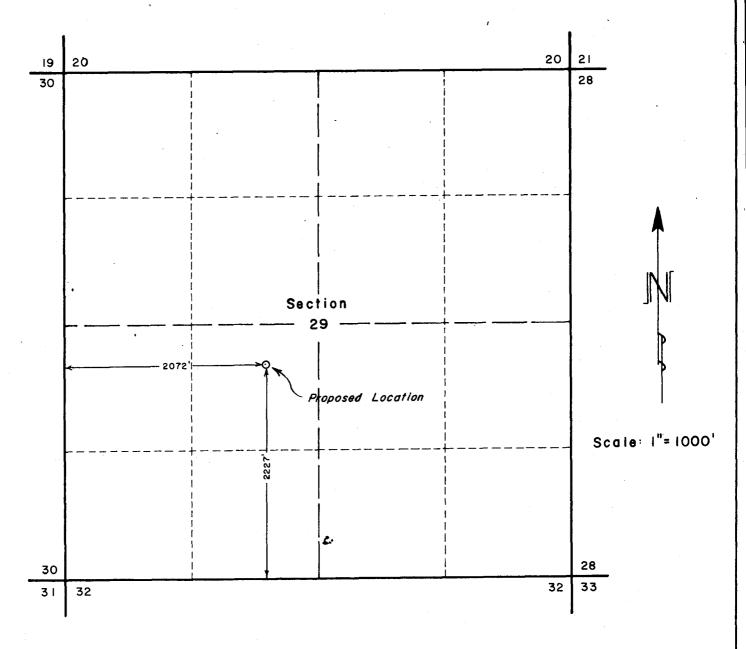
PERMIT NO. APPROVAL DATE

APPROVED BY TITLE TITLE DESTRICT DATE

ODATE DATE

APPROVAL DATE

ODATE



WELL LOCATION: Union Oil Company - No. 29 - B3 Ismay

Located 2227 feet North of the South line and 2072 feet East of the West line of Section 29, Township 40 South, Range 26 East, Salt Lake Base & Meridian, San Juan Co., Utah Existing ground elevation determined at 4693 feet based on adjoining well locations.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

FREDERICK H. REED
Registered Land Surveyor
State of Utoh # 2669



UNION OIL COMPANY Denver, Colorado

WELL LOCATION PLAT Sec. 29, T. 40 S., R. 26 E. San Juan Co., Utah

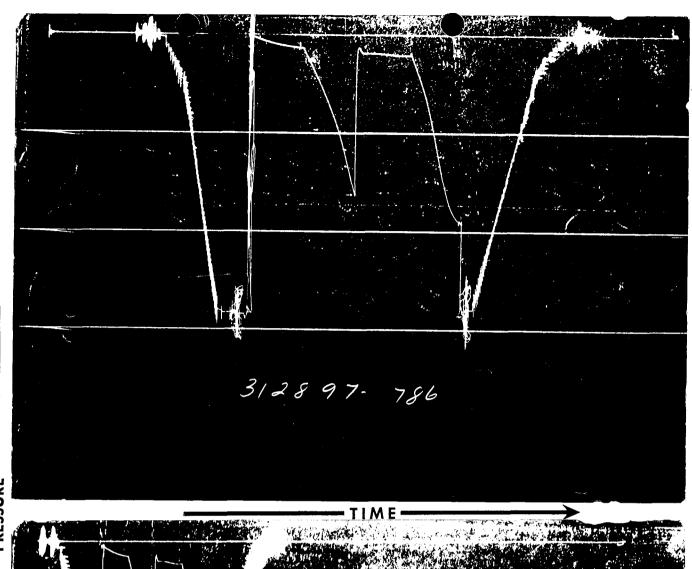
CLARK-REED & ASSOC. Durango, Colorado DATE: Aug. 8, 1966 FILE NO: 66076

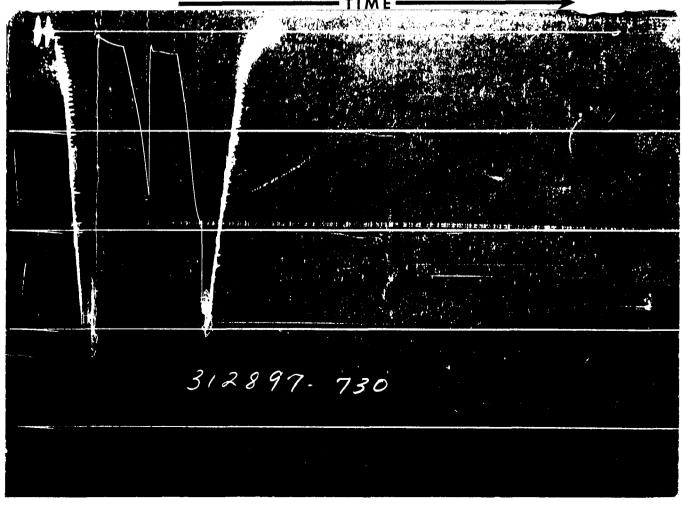
	lst	Min.	2nd Min									7
Flow Time	60	.75113·	60 Min	Date	9-7-66		Ticket Number	312897 - S		2000 1000		
Closed In Press. Time	1st 60	Min.	2nd Min. 60	Kind of Job	Open Hole		Halliburton District	armington		Legal Location Sec Twp Rng		TÓT
Pressure Readings	Field		Office Corrected	Tester	Mr. White	sides	Witness	Mr. Gustabon		Rng.	_	TAMÓT
Depth Top Gauge	5255	Ft.	Blanked Off	Drilling Contractor	J C MAND	COMPAN	Y	SM		29 4	Fease	
BT. P.R.D. No.	786		12 Hour	Elevation			Top Packer	5270 '		40S 2	30	
Initial Hydro Mud Pressure	2852		2853	Total Depth	5330 '		TUCKOI	2751		6E		
Initial Closed in Pres.	1613		1638	Interval Tested	5330-5275	,	Tested Tested	Upper Ismay				ļ
Initial Flow Pres.	135	1		Casing or Hole Size	7 7/8"		Casing Top Perfs. Bot.					
Final -	135	1	136	Surface			7 501.		-		¥el	5
Flow Pres.	217	2	213	Choke	1"		Bottom Choke 3	/4"			Z	l
Final Closed in Pres.	1882		1926	Size & Kind Drill Pipe	4½" XH		Drill Collars Above Tester	1.d Length 2 1/4 690				
Final Hydro Mud Pressure	2852	-	2815	Mud Weight	10.5		7 10005117	49		<u> </u>	Test No.	}
Depth Cen. Gauge		Ft.	Blanked Off	Temperature		°F Est. °F Actual	Anchor Size ID & Length OD	$\frac{2^{\frac{1}{4}}}{6}$ x 20	_	Field	, 6	
BT. P.R.D. No.	T.		Hour Clock	Depths Mea. From	Rotary tal	ole	Depth of Tester Valve	5250	řt.	IS		يع ا
Initial Hydro Mud Pres.				Cushion TYP	E AMOUNT	Ft.	Depth Back Pres. Valve	<u>, </u>	ŧ.	YAMSI		ONLON
Initial Closed in Pres.				Recovered	180	eet of	heavy gas	cut drilling	Mea.		-	OIL
Initial Flow Pres.		2		Recovered	180	eet of		- 1	From T		eque O	COMPANY
Final Flow Pres.	- <u> </u>	<u>1</u> 2		Recovered	5	eet of	Some ries		Tester	g	wner/	PAN
Final Closed n Pres.				Recovered	·	eet of			Valve	County	Owner/Company	AO AA
Final Hydro Aud Pres.				Oil A.P.I. Gravity			Water Spec. Gravity			SAN	ny Name	
Pepth Bot. Gauge	5326	Ft.	yes Off	Gas Gravity			Surface Pressure	p	si	JUAN	6	CALIFORNI
T. P.R.D. No.	730		24 Clock	Tool Opened	9:45 AM	A.M. P.M.	Tool Closed	L:45 PM P.A	١.	4		NIA
nitial Hydro Aud Pres.	2937		28 89	Remarks	Tool opened	for a	60 minute f	irst flow.				
nitial Closed n Pres.	1734		1 655	Rotated	for a 60 m	inute	initial clos	sed in	2016			של
nitial low Pres.	134	1 2	52 151	pressur	e. Tool re	-opene	d with a wea	ak blow for	16	,	و	URANGO
inal low Pres.	134	1 2	154 2 28				low throughout		_	HATU	Owner's D	NGO
inal Closed	2001	Ī	1948	·		· · · · · · · · · · · · · · · · · · ·	losed in pre			1	District	
nal Hydro ud Pres.	2937	+	2775		· · · · · · · · · · · · · · · · · · ·				-			
	· · · · · · · · · · · · · · · · · · ·		FOR	MATION	N TEST	DAT	Λ	 7	\prec			

FORMATION TEST DATA

Ga	uge No.	786	Dept	h	5255'			Ticket No.	312897	
		rst Period	CI	Initial osed In Pres	sure		cond Period	CI	Final osed In Press	iure
	Time Defl.	PSIG Temp. Corr.	Time Defl.	Log t+0	PSIG Temp. Corr.	Time Defi.	PSIG Temp. Corr.	Time Deff.	Log t+0	PSIG Temp. Corr.
Po	.000	14	.000		136	.000	146	.000		213
Pı_	.067	45	.410		1638	.103	188	.040		354
P ₂	.134	73				•206	195	.080		504
P ₃	.201	98				•309	211	.120		538
P4	.268	114	· · · · · · · · · · · · · · · · · · ·			.412	213	.160		893
P ₅	.335	127	<u> </u>					.200		1442
P ₆	.402	136						. 240		1403
) ,			-					•280		1634
9,						<u> </u>		• 320		1790
P ₉			-					•360		1879
		İ				ll.		11		
10	<u> </u>	-			<u> </u>	[<u> </u>	•400		1926
	uge No. 73	30	Dept	h 5:	326'	Clock	24	hour		1926
Gai	.000	52	Dept	h 5:	326'	Clock .000	24	*1		228
Gai	uge No.		1	h 5:	1	1		hour		
Gai	.000 .032	52 80 103	•000	h 5:	154	.000	151	hour .000		228
Gai	.000	52 80 103	•000	h 5:	154	.000	202	.000 .0198		228 3 62
Gai	.000 .032	52 80 103	•000	h 5:	154	.000 .0497 .0994	151 202 213	.000 .0198 .0396		228 362 519
Gat P ₀ P ₁ P ₂ P ₃	.000 .032 .064	52 80 103 122	•000	h 5:	154	.000 .0497 .0994 .1491	151 202 213 228	.000 .0198 .0396		228 362 519 689
Gat 20 21 22 23 24	.000 .032 .064 .096	52 80 103 122 137	•000	h 5:	154	.000 .0497 .0994 .1491	151 202 213 228	.000 .0198 .0396 .0594		228 362 519 689 908
Gat P ₀ P ₁ P ₂ P ₃ P ₄ P ₅	.000 .032 .064 .096 .128	52 80 103 122 137	.000	h 5:	154	.000 .0497 .0994 .1491	151 202 213 228	.000 .0198 .0396 .0594 .0792		228 362 519 689 908
Gat 20 21 22 23 24 25 26 27	.000 .032 .064 .096 .128	52 80 103 122 137	.000	h 5:	154	.000 .0497 .0994 .1491	151 202 213 228	.000 .0198 .0396 .0594 .0792 .0990		228 362 519 689 908 1141 1408 1645 1809
Gat 00 01 02 03 04 05 06 07	.000 .032 .064 .096 .128	52 80 103 122 137 147 154	.000	h 5:	154	.000 .0497 .0994 .1491	151 202 213 228	.000 .0198 .0396 .0594 .0792 .0990 .1188 .1386		228 362 519 689 908 1141 1408 1645
P ₀ P ₁ P ₂ P ₃ P ₄ P ₅ P ₆ P ₇ P ₈ P ₉ P ₁₀	.000 .032 .064 .096 .128	52 80 103 122 137	.000	h 5:	154	.000 .0497 .0994 .1491	151 202 213 228 228	.000 .0198 .0396 .0594 .0792 .0990 .1188 .1386	6	228 362 519 689 908 1141 1408 1645 1809

SPECIAL PRESSURE DATA



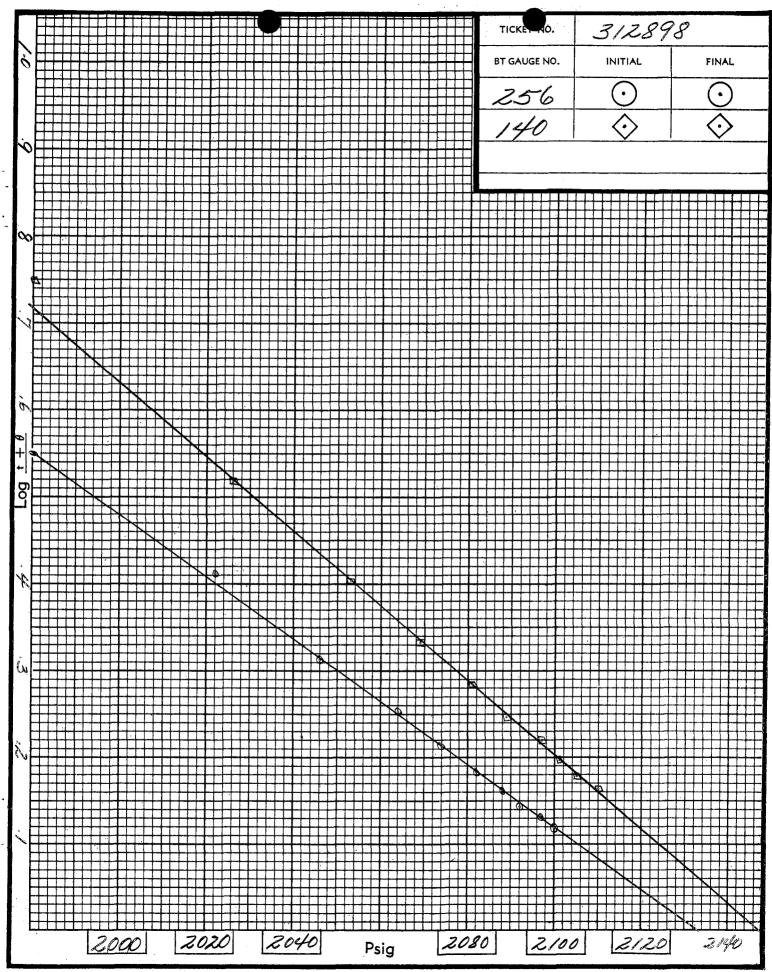


Each Horizontal Line Equal to 1000 p.s.i.

	1st Min.	2nd Min.	1				
Flow Time	1st Min.	2nd Min. 30	Date	9 - 8-66	Ticket Number	312898 - S	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
Closed In Press. Time	1st Min.	2nd Min. 60	Kind of Job	OPEN HOLE	Halliburton District	FARMINGTON	Legal Location Sec Twp Rn
Pressure Readings	Field	Office Corrected	Tester	MR. WHITESIDES	Witness	MR. GUSTABSON	•
Depth Top Gauge	5309 Ft.	Blanked Off	Drilling Contractor	J. C. MAN DRILL	ING COMPANY	IC	SEC. 29
BT. P.R.D. No.	256	Hour 12 Clock	Elevation	Gail	Top Packer	53241	ome 29
Initial Hydro Mud Pressure	3049	2994	Total Depth	5375'	Bottom Packer	53291	
Initial Closed in Pres.		60 .	interval Tested	5329'-5375' (30	Formation Tested	ISMAY	80
Initial Flow Pres.	733 2		Casing or Hole Size	7 7/8"	Casing Top Perfs. Bot.	dus .	26
Final Flow Pres.	878 2		Surface Choke] "	Bottom Choke	3/4 ⁵⁵	Well No.
Final Closed in Pres.	2179	2100	Size & Kind Drill Pipe	4 1/2" X.H.	Drill Collars Above Tester	1.d LENGTH 2 1/4"-6901-90	1 1
Final Hydro Mud Pressure	4-5	2994	Mud Weight	11.0	Mud Viscosity	55	Test
Depth Cen. Gauge	Ft.	Blanked Off	Temperature —	135 °F Est.	Anchor Size ID & Length OD	2 1/4" x 15'	Field Area
BT. P.R.D. No.	ž.	Hour Clock	Depths Mea. From	ROTARY TABLE	Depth of Tester Valve	5304! Fr.	
Initial Hydro Mud Pres.			TYPE Cushion	AMOUNT Ft.	Depth Back Pres. Valve	∞ Ft.	ISMAY
Initial Closed in Pres.			Recovered	Feet of		Mea.	T
Initial Flow Pres.	1 2		Recovered	Feet of		From	Lease (
Final Flow Pres.	1 2	*	Recovered	Feet of		Tester Valve	Ou Cou
Final Closed in Pres.			Recovered	Feet of		Valve	Lease Owner/Compan
Final Hydro Mud Pres.			Oil A.P.I. Gravity	40°	Water Spec. Gravity	a	
Depth Bot. Gauge	5371 Ft.	Blanked YES Off	Gas Gravity	ų.	Surface Pressure	œ psi	ا ا
BT. P.R.D. No.	140	Hour 214 Clock	Tool Opened	9:05 AM P.M.	Tool Closed	10:35 AM P.M.	UAN
Initial Hydro Mud Pres.	3023	3010	Remarks Open	ed tool for 30 m	minute flow	period with a	
Initial Closed in Pres.		-	strong blo	ow; gas to surfac	e in 15 min	utes and oil	State
Initial Flow Pres.	521 2	5 7 8	in 20 minu	ites. Closed to	ol for 60 mi	nute final	~
Final Flow Pres.	939 2	924	closed in	pressure.			Owner's District UTAH
Final Closed in Pres.	2087	2110	40 barrels	per hour, 30' n	net pay, 40		strict
Final Hydro Mud Pres.		3010	as per J.				

Gaug	je No.	256	Dept		53091	Clock	12 ho	Ticket IT No.	312898	
		rst Period	Cle	Initial osed In Pres	sure	11	cond Period	CI	Final osed In Press	ıre
	Time Defi. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log t+0	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defi. .000"	Log ++0	PSIG Temp. Corr.
Po			,			.000	607	.000	CD CP* 883	927 272 0 3
Pı						.0286	728	.006 010	1,395	1552° 1552° 1571
P ₂						.0572	787	.0451 .0902	.620 .411	3771 2023
Pa						.0858	817	.1353	.313	2005
P ₄						بالالد	890	.1804	.253	6.74
P ₅						. 30 مال	917	.2255	يُرْفُدُونَ ع	20%
Pe								.2706	0284	2002
P ₇						Clock st		3527	53.62	2000
P ₈						the begi	period.	.3606	o Jest	2032
P ₉						Approxim minutes	recorded	.4059	0 1 3 2	2921
P10						Cut into interval		JISIO	:119	
Gaug	je No.	ılıo	Dept	h	53711	Clock	24	hour		and again statement training to
Po						.000	578	.000 .002	1.694	<u>971.</u> 1808)
P ₁						ه ۱۹۵۵ م	546	200. 200. 120.	20339 7133	
P ₂			A territory			.0388	702	0 Vest. 0 Vest.	0 (45) (49)	
P ₃						.0582	795	<u>,053</u>		2002
P ₄						.0776	872	.094	333	2063
P ₅						.0970	924	.105	.284	2083.
P ₆	· · · · · · · · · · · · · · · · · · ·							.126	0 25 h 1	<u> 2035</u> .
P ₇									.229	2097
P ₈								.368	.197	
P ₉								.189	al/9	27.55
P ₁₀	Interval						6		,164	<u>2179</u> Minut
REMAR			<u>"</u>			11.	*Unequal	9 (.,	

SPECIAL PRESSURE DATA



Liquid Production

B.T. Gauge Numl	3.T. Gauge Numbers		256	140	Ticket Number	,	312898	
nitial Hydrostatic			PRESSURE	PRESSURE				
Initial Hydrostati	nitial Hydrostatic		2994**	3010	Elevation		0	ft
Final Hydrostatic			2994	3010	Indicated	1st Flow	*	bbls day
	Initial	Time	607	578	Production	Total Flow	*	bbls day
1st Flow —	Final	sus:	917	924	Drill Collar Ler	ngth	690	ft
Initial Closed In	Pressure	848	2100	2110	Drill Collar I.D		2 1/4	in
	Initial		wad	-	Drill Pipe Facto	or	0.0142	bbls ft
2nd Flow	Final	3 0	ents	ests.	Hole Size		7 7/8	in
Final Closed In P	ressure	60		-	Footage Tested	EST.	30	ft
Extrapolated		Initial	2133	2047	Mud Weight	13	11.0	lbs. gal
Static Pressure		Final		-	Viscosity, Oil o	»-Water	2.0	ср
Slope psi/cycle		Initial	1855	1915	Oil API Gravity	EST.	40°	_
P10		Final	_* * *		Water Specific	Gravity	naph .	

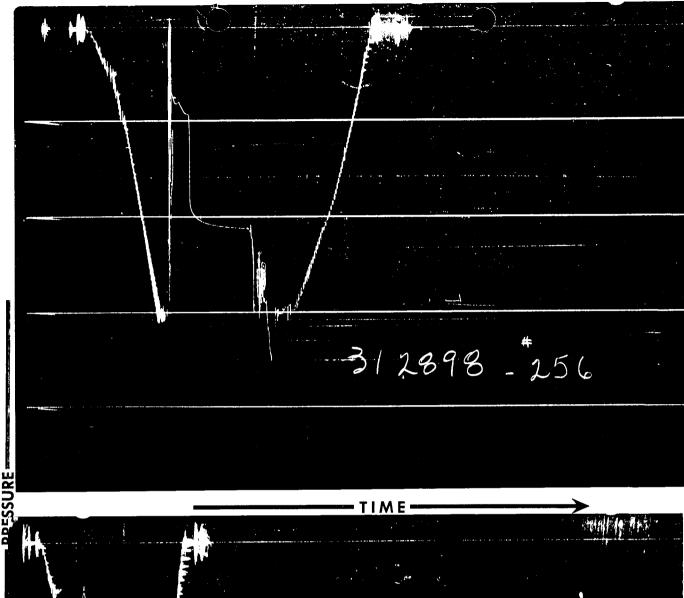
Remarks: *Results shown on initial of B.T.#140 calculated on pressure change of 30 minutes of initial flow period. Results show on final of B.T.#140 based on reported data of 40 barrels per hour.

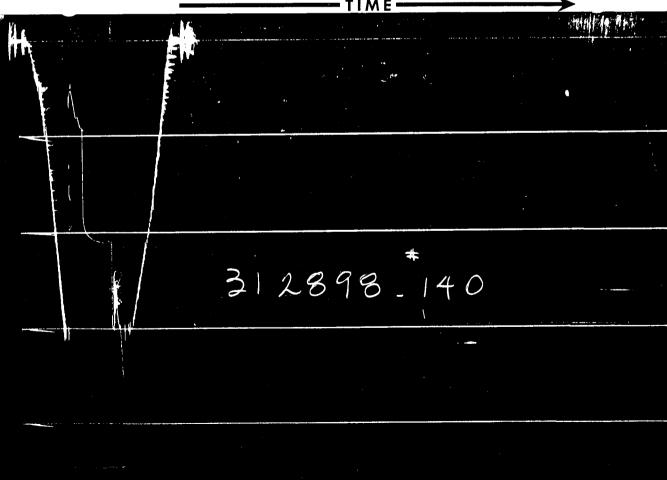
**Unable to use initial flow period for B.T.#256 because we were not able to determine initial flow point with respect to time.

SUM	IMARY	Gauge No. Depth 256/	[/] 53091	Gauge No. Depth	140/5371	
Product	Equation	initial	Finel	Initial	Final	Units
Production	$Q = \frac{1440 \text{ R}}{\text{t}}$			722.	960.	bbls. day
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 \; Q}{m}$			889.	1182.	md. ft.
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \ \mu$			1779.	2365.	md. ft.
Average Effective	$K = \frac{Kh}{h}$			59.30	78.83	md.
Permeability	$K_{r} = \frac{Kh}{h_{r}}$			-	-	md.
Damage Ratio	$DR = .183 \frac{Ps - Pf}{m}$			1.55	1.55	
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$			1124	1494	bbis. day
Approx. Radius	b $ > \sqrt{Kt} $ or $\sqrt{Kt_0}$			42.2	48.6	ft.
of Investigation	$b_1 \subseteq \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$			-	1	ft.
Potentiometric * Surface	Pot. = EI - GD + 2.319 Ps			-624.	-624•	ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

INTERPRETATIONS AND CALCULATIONS



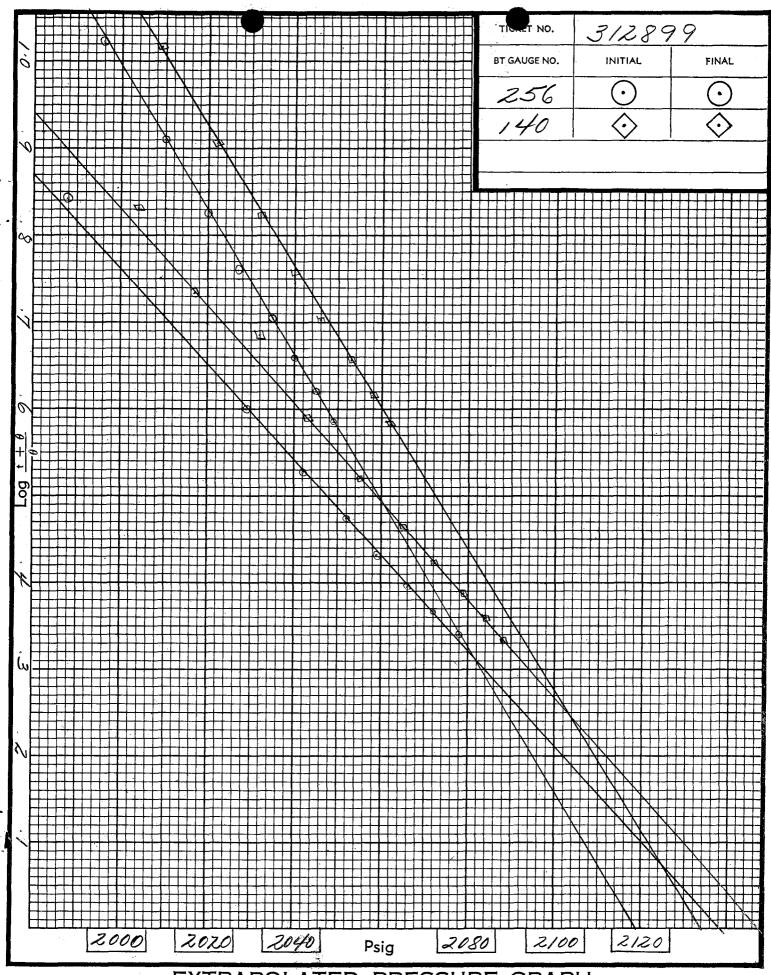


Each Horizontal Line Equal to 1000 p.s.i.

Flow Time	1st 30	Min.	2nd Min.	Date	9-10-66	Ticket Number	312899	S	Sec	
Closed In	Tet	Min.			STRADDLE	Halliburton			- 글도	
Press. Time	30		15	of Job	OPEN HOLE	District	FARMINGT	ON	Location Twp Rng	
Pressure Readings	Field		Office Corrected	Tester	WHITESIDES	Witness			Rng.	
Depth Top Gauge	5366	Ft.	Blanked Off		J.C. MAN DRILLING			SM L		
BT. P.R.D. No.	256	7	Hour 12 Clock		-	Top Packer	5381' 5 5385' 5	5366	,	
Initial Hydro Mud Pressure	2904		2940	Total Depth	5550*	Bottom Packer	5401' 5 5406' S	5386 5391	S04	
Initial Closed in Pres.	2034		2078	Internal	Net pay 16' -5385' - 5401'	Formation Tested	Lower Is			
Initial	265		1 364	Casing or	5370 5386	Casing (Top			26E	
Flow Pres.	1023		2 1111	Hole Size	7 7/8**	Perfs. Bot.				
Final	1023		1 1088	Surface	1"	Bottom	- ** **			
Flow Pres.			2 1038	Choke	1"	Choke	3/4°		_	
Final Closed in Pres.	2034	1	2049	Size & Kind Drill Pipe	4 ½ XH	Drill Collars	1.d LEN 2 1 90 °			
Final Hydro Mud Pressure	2904		2940	Mud Weight	10.9	Above Tester Mud Viscosity	2 4 °° 90° .	<u>⇒ 3/U</u>	-	
Depth Cen. Gauge	<u></u>	Ft.	Blanked Off		05 5.4	Anchor Size ID		16*	Field	
BT. P.R.D. No.			Hour Clock	Depths Mea. From	Rotary Table	Depth of Tester Valve	5311	Ft.	0 0	
Initial Hydro Mud Pres.				Cushion	YPE AMOUNT Ft.	Depth Back Pres. Valve	-	Ft.	Al	
initial Closed in Pres.				Recovered	5356 Feet of H	Highly gas c	eut oil.	Mea.	ANITH	
Initial Flow Pres.		1	<u> </u>	1	30 Foot of M	muddy oil cu	· * * * * * * * * * * * * * * * * * * *	From		
Final		<u>2</u> 1		Recovered	50 Feet of ""	maday off or	.T waters			
Final Flow Pres.		<u>_</u>		Recovered	Sant of	¥		Tester	0	ŀ
Final Closed				Recovered	Feet of			r Valve	County	,,
inal Hydro Mud Pres.				Oil A.P.I. Gravity	Feet of	Water Spec. Gravity				any range
Depth Bot. Gauge	5396	Ft.	Blanked yes Off	Gas Gravity		Surface Pressure		psi	SAN	4
IT. P.R.D. No.	140		Hour 24 Clock	Tool Opened	1:20 P.M. A.M. P.M.	Tool Closed			JUAN	
nitial Hydro Aud Pres.	2879		2964		ened tool for a 30		tial flow			
nitial Closed	2015				blow. Took a 30 m				Sta	
nitial	260	1	490	3 00-0-0	7100	Indic Indic	dr rrone	1	2	
low Pres.	1011	2	1150	opened to	ol for a 15 minute	final flow	with stre	ong		9
inal	1011	1	1110	,					q	767
low Pres.	page 1	2	1076	blow. Gar	s to surface in 20	minutes, o	il to surf	face	TAH	5
inal Closed Pres.	2015				utes. Closed tool			al		Owner's District
inal Hydro Aud Pres.	2879				pressure. 30 BBLS Gravity as per Ti		r j. Manch	nester		

FORMATION TEST DATA

Gau	ge No.	256	Dept	h	5366	Clock	12 ho	Ticket No.	312899	
	Fin Flow		CI	initial	ite	Seco Flow F		Cle	Final sed In Press	ire
	Time Defi.	PSIG Temp. Corr.	Time Defi.	Log t+0	PSIG Temp. Corr.	Time Defi.	PSIG Temp. Corr.	Time Defl. .000"	Log #+0	PSIG Temp. Corr.
) 0	.000	364	.000	80	1088	.000	1111	.000		1038
P ₁	.0458	431	.0192	1.111	1949	.0176	1039	.0111	1.470	1941
) 2	.0916	604	.0384	.842	1988	.0352	1091	.0222	1,184	1975
)3	.1374	777	.0576	735 ه	2017	.0528	1114	.0333	1.022	1996
4	.1832	930	.0768	.600	2029	.0704	1088	.0444	910 .	2010
) ₅	,2290	1088	.0960	.529	2042	.0880	1038	.0555	.826	2020
) 6			.1152	.475	2052			.0666	.760	2027
) 7	2		.1344	.431	2059			.0777	.705	2035
) ₈			.1536	.396	2066			.0888	.659	2040
),			.1728	.366	2072			.0999	.620	2045
710			.1920	.340	2078			.1110	.586	2049
Gat	uge No.	140	Dep	th	5396	Clock	24	hour	· · · · · · · · · · · · · · · · · · ·	
Po	.000	490	.000	-	1110	.000	1150	.000	-	1.076
P ₁	.022	513	.0095	1.099	1964	.0086	1075	.0054	1.467	1961
P ₂	I	658	.0190	.831	2004	.0172	1120	.0108	1.180	1990
P ₃	.066	821	.0285	.686	2032	.0258	1145	.0162	1.018	2009
P ₄	.088	965	.0380	.590	2043	.0344	1126	.0216	.907	2022
D ₅	.110	1110	.0475	.520	2055	.0430	1076	.0270	.823	2032
			.0570	.466	2065			.0324	.757	2040
P ₆	1			1122	2072			.0378	.703	2046
] - ·	.0665	.423	20,2,	-{		11 .		
P ₇			.0760	.388	2079			.0432	.657	2053
P ₇		· ·	1					.0432	.657	2053
P6 P7 P8 P10		6	.0760	.388	2079		3	 	<u> </u>	-



EXTRAPOLATED PRESSURE GRAPH

Liquid Production

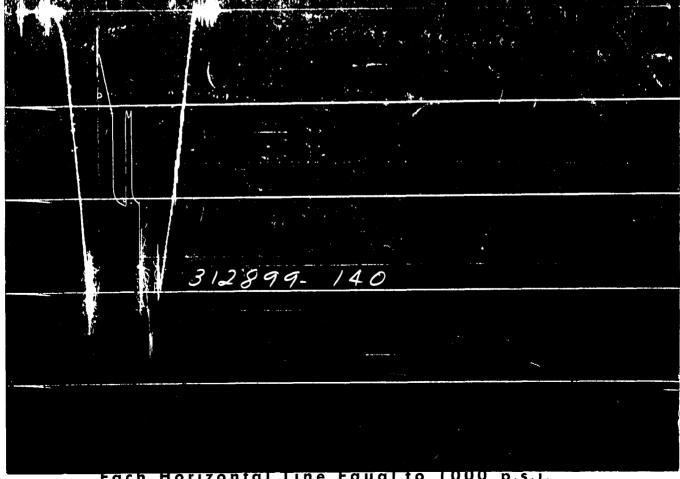
B.T. Gauge Num	nbers		256	140	Ticket Number		312899	
1. 11. 1			PRESSURE	PRESSURE			:	
Initial Hydrostat	nitial mydrostatic		2940	2964	Elevation		0	ft.
Final Hydrostatic			2940	2964	Indicated	1st Flow	*	bbis. day
1st Flow —	Initial	Time '	364	490	Production	Total Flow	≠=== *	bbls. day
1st Flow	Final	30	1088	1110	Drill Collar Len	gth	690	ft.
Initial Closed In	Pressure	30	2078	2088	Drill Collar I.D.		2 1/4	in.
2nd Flow	Initial		1111	1150	Drill Pipe Facto	r	0.01422	bbls. ft.
2nd Flow	Final	15	1038	1076	Hole Size		7 7/8	in.
Final Closed In P	Pressure	15	2049	2062	Footage Tested		16 Net	ft.
Extrapolated	****	Initial	2119	2134	Mud Weight		10.9	lbs. gal.
Static Pressure	Static Pressure		2138	2148	Viscosity, Oil or	Water	2.0	ср
Slope XXXXXXXXX		Initial	1957	1969	Oil API Gravity	Estimate	40 °	
P 10		Final	1999	2010	Water Specific	Gravity	224	_

Remarks: * The calculation results as shown on the initials are based on pressure changes of 24 minutes of the first flow period. The results as shown on the finals are based on a flow rate of 30 Bbls. per hour estimated.

SUM	MARY	Gauge No. 256 Depth 5366*		Gauge No. 140 Depth 5390	6.*	
Product	Equation	Initial	Finel	Initial	Final	Units
Production	$Q = \frac{1440 \text{ R}}{\text{t}}$	1568	720	1425	720	bbls. day
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 \; Q}{m}$	1574	842	1404	848	md. ft.
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \ \mu$	3149	1684	2809	1696	md. ft.
Average Effective	$K = \frac{Kh}{h}$	-				md.
Permeability	$K_{r} = \frac{Kh}{h_{r}}$	196.83	105.28	175.60	106.04	md.
Damage Ratio	$DR = .183 \frac{Ps - Pf}{m}$	1.165	1.448	1,137	1.421	
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$	1827	1042	1619	1023	bbls. day
Approx. Radius	b	-	•	euro.	. .	ft.
Investigation	$b_1 \subseteq \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$	76.8	68.8	7245	69.0	ft.
Potentiometric * Surface	Pot. = EI - GD + 2.319 Ps	- 452	- 407	-447	-414	ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

312899:256



Budget Bureau No. 62-19714.4. Approval expires 12-31-60.

UNITED	STATES

DEPARTMENT OF INTERIOR GEOLOGICAL SURVEY

Allottes _	Navajo
Triba	Navajo
Lezza No.	14-20-603-2055

LESSEE'S MONTHLY REPORT OF OPERATIONS

Agent's	addre	ss F	. 0.	Box	1611		Ca	mpany .Un	ion Oil O	ompany of Califor
Dhoma	•••••	<u>0</u>	aspe	r. Wy 563	oming	**********	Sig	med	A	Office Manager
Eec. and		Range	Veil No.	Days Fro-	Earrels of Cil	T===	Cu. Ft. of Gas (In Thousands)			REMARKS: (If drilling, depth; if shut down, cause; date and result of test for gazoline content of gas)
NW	₽3	26E		dused 			elevation 8-21-66. 160.74°, Cemented 2% calciu from top 2% calciu Had 6" st 8-5/8" J- with 630 After cem stream of cemented dead appr flowing 1	2,227: 14,705 Drilled of 13-3/ with 150 m chlori ream of the 55 5 liff c cu. ft. snting w water. with 50 pximatel 1/2" st and shut	FSL and • Spudd to 160 •. 3" 48# ca sax 50-5 1e• No r sax regul tater• S 1sing at of 50-50 11 conti Ran 1" t sax regul tater of water of water	2,072' FWL. KB ed at 1:00 p.m. Set 5 jts., sing at 159'. 0 Pozmik, 2% gel, eturns. Cemented ar cement with led to 1,510'. et 47 jts. of 1,509'. Cemented Pozmik, 4% gel. nued to flow 6" ubing to 80' and ar cement. Well tes then resumed ater. Set casing r flow. Drilled

NO runs or sales of gasoline during the month. (Write "no" where applicable.) Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in Suplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329A (December 1948)

August 11, 1966

Union Oil Company of California P.O. Box 1611 Casper, Wyoming

> Re: Well No. Ismay #29-B3, Sec. 29, T. 40 S., R. 26 E., San Juan County, Utah. api 43-037-20116.

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well on said unorthodox location is hereby granted in accordance with Rule C-3 (c) and the Order issued in Cause No. 54 dated May 9, 1961.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer HOME: 277-2890 - Salt Lake City, Utah OFFICE: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days if the well has not been spudded-in within said period. Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE DIRECTOR

GBF: JW cc: P.T. McGrath, District Engineer U.S. Geological Survey Farmington, New Mexico



(SUBMIT IN TRIPLICATE)

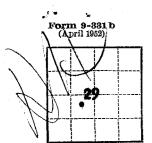
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

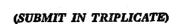
Indian Agency Navajo

Allottee Navajo Tribe

Lease No. 11-20-603-2055

NOTICE OF INTENTION TO TEST WAT NOTICE OF INTENTION TO REDRILL	OR REPAIR WELL	SUBSEQUENT RE	EPORT OF REDRILLING OR REPAIR.	
NOTICE OF INTENTION TO SHOOT OF NOTICE OF INTENTION TO PULL OR NOTICE OF INTENTION TO ABANDON	ALTER CASING		Y WELL HISTORY.	\ \ \
(INDICA	TE ABOVE BY CHECK MA	ark nature of report, n	NOTICE, OR OTHER DATA)	
·			August 24,	, 19 _66 _
ell No. 29-B3 is lo	cated 2227 ft.	from ${\mathbb{N} \atop S}$ line and	2072 ft. from E line o	f sec. 29
NW SW Sec. 29 (14 Sec. and Sec. No.)	408 (Twp.)	268 (Range)	N. M. P. M. (Meridian)	
licat	San Ju		Utah	
	to objective sands; show ing points, and	an otner important propo	hs of proposed casings; indicate mud sed work)	
mided at 1:00 p.m. t 5 jts., 160.74', immix, 2% gel, 2% ca p with 75 sax regul	8-21-66. Dri 13-3/8" lib/ o leium chlorid ar cement wit	v sizes, weights, and length all other important propo lessing at 159's lessing at 159's lessing at 25's	hs of proposed casings; indicate mud sed work) Olo to 160° Reamed Comented with 150	to 17-1/4" max 50-50 Communited fr
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unided at 1:00 p.m. t 5 jts., 160.7h', : mmix, 2% gel, 2% ca p with 75 sax regul	8-21-66. Dri 13-3/8" lib/ o leium chlorid ar cement wit	v sizes, weights, and length all other important propo lessing at 159's lessing at 159's lessing at 25's	hs of proposed casings; indicate mud sed work) Ole to 160'. Reamed Cemented with 150 . Waited 3 hours.	to 17-1/4" max 50-50 Communited fr
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naided at 1:00 p.m. of t 5 jts., 160.7h., 25 gel, 25 ca. op with 75 sax regularization. Job complete	8-21-66. Dri 13-3/8" 18/6 colored ar cament with at 5100 p. R	v sizes, weights, and length all other important proposed in the size of the s	hs of proposed casings; indicate mud sed work) ole to 160'. Reamed Cemented with 150 . Waited 3 hours. hloride. Filled ann gical Survey before operations may	to 17-1/4" sax 50-50 Gemented fr ulus to
oudded at 1:00 p.m. et 5 jts., 160.7h', i emix, 2% gel, 2% ca ep with 75 sax regul erface. Job complete	8-21-66. Dri 13-3/8" 10% of Cali	v sizes, weights, and length all other important proposed in the size of the s	hs of proposed casings; indicate mud sed work) ole to 160'. Reamed Comented with 150 . Waited 3 hours. hloride. Filled ann	to 17-1/4" sax 50-50 Comented frulus to





UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

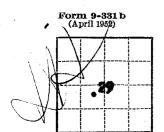
Form approved. Budget Bureau No. 42-R359.4.

Indian Agency Maya 10

Allottee Ravajo Tribe

Loase No. 14-20-603-2055

Tempy Tell No. 29-83 is located 2227 ft. from S line and 2072 ft. from W line of sec. 25 W NW SW Sec. 29 kQS 26E No. (Meridian) (Meridian) (Meridian) (Field) (County or Subdivision) (State or Territory) KB the elevation of the denizhations above sea level is 1705 ft. DETAILS OF WORK tate names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, compared to 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 17 3-5/8" 514 3-55 casing at 1,509". Comented with 630 cu. ft. 50-50 Pounds are subjected approximately 15 minutes then resumed 1-1/2" stream flow of water. See 19 19 19 19 19 19 19 19 19 19 19 19 19	SUNDRY N	OTICES	AND REP	ORTS	ON W	ELLS	
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA) August 25		•	1 11				I
I comy ell No. 29-83 is located 2227 ft. from S line and 2072 ft. from W line of sec. 25 W MN SW Sec. 29 hC3 26E N.M.P.M. (Keso, and Sec. No.) (Typ.) (Range) (Meridian) 1 deat San Juan Utah (Pieto) EB (County or Subdivision) (Siato or Territory) The elevation of the demarkations above sea level is \$705 ft. DETAILS OF WORK The names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, or included to 1,510° with 12-1/h" bit. Had 6° stream flow of water. Set \$7: ft. 9-5/8" Sid J-55 casing at 1,509°. Commented with 630 ca. ft. 50-50 Pounding string down annuluse to 80°. Commented with 630 ca. ft. 50-50 Pounding string down annuluse to 80°. Commented with 50 cax regular commits. Set all approximately 15 minutes then resumed 1-1/2" stream flow of water. Seasing on slips packed?. Shut off water flow. Plug down at 5:00 a.m. 8-2 cow W.O.C. I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be common company Union (0.1) Company of California Original Signed P. F. Cochran P. F. Cochran			JON PERMIT	MILL HERMAN			
I comy cell No. 27-33 is located 2227 ft. from S line and 2972 ft. from W line of sec. 25 W NW SW Sec. 29 LOS 262 N.M.P.M. (Glady) (County of Subdivision) (Meridian) I county of Subdivision) (State of Touritory) RB (County of Subdivision) (State of Touritory) And the celevation of the dentification above sea level is 1,705 ft. DETAILS OF WORK attenames of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, celevation of the dentification above sea level is 1,705 ft. DETAILS OF WORK attenames of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, celevation of the dentification above sea level is 1,505 ft. DETAILS OF WORK The county of water. Set 1,7 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,7 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-1/4" bit. Had 6" stream flow of water. Set 1,505 ft. Sec. 1,510 with 12-	NOTICE OF INTENTION TO ABANDON WE						
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ildest (Field) (County or Subdivision) (State or Territory) (Restance of Subdivision) (State or Territory) (State or Territory) (Restance or Territory) (State or Territ	W NW SW Sec. 29		26E				
(Field) KB (County or Subdivision) (State or Territory) KB ne elevation of the densishations above sea level is \$705ft. DETAILS OF WORK ate names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, or inspoints, and all other important proposed work) Filled to 1,510' with 12-1/h" bit. Had 6" stream flow of water. Set \$7. ft 8-5/8" 51s 3-55 easing at 1,509'. Comented with 630 cu. ft. 50-50 Posses Sgel. After comenting, well continued to flow 6" stream of water. Ran a ubing string down amulus to 80'. Comented with 50 eax regular coment. It send approximately 15 minutes then resumed 1-1/2" stream flow of water. So easing on slips packeff. Shut off water flow. Flug down at 5:00 a.m. 6-2" on W.O.C. I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commented of the first of				(TO	eridishij	Mah	
DETAILS OF WORK ate names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, or ing points, and all other important proposed work) rilled to 1,510° with 12-1/4° bit. Had 6° stream flow of water. Set 47 f 8-5/8° 516 J-55 easing at 1,500°. Comented with 630 cm. ft. 50-50 Pound gel. After comenting, well continued to flow 6° stream of water. Ran in thing string down annulus to 60°. Committed with 50 cm. regular coments. It is also approximately 15 minutes then resumed 1-1/2° atream flow of water. Sasing on slips packetf. Shut off water flow. Plug down at 5:00 a.m. 6-2° on W.O.C. I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commented with the first of the fir			75778		(State	or Territory)	
Sel. After camenting, well continued to flow 6" stream of unter. Ran in thing string down annulus to 80'. Committed with 50 can regular coment. It is allowed approximately 15 minutes then resumed 1-1/2" stream flow of unter. So using on slips packeff. Shut off water flow. Plug down at 5:00 a.m. 8-2" low W.O.G. I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commented ompany Union Ci.l. Company of California. Original Signed P. F. Cochran P. F. Cochran	ate names of and expected depths to or	ing points, and al	l other important p	oposed work)		
Company Union Ci.l Company of California Address P. O. Box 1611 Casper, Wyoning By P. F. Cochran	of 8-5/8" 54# J-55 easi 15 gel. After commiting tubing string down annu- lead approximately 15 w	ing at 1,509 mg, well con the to 80'. In the to 80'. In the then	'. Communications of the Communication of the Commu	with (or 6" ; ith 50 /2" st))) ou. f stream of oux regu ream flow	t. 50-50 unter. lar cement of water	Posmix Ran l ⁿ t. We: . Set
ompany linion (i.) Company of California ddress P. O. Box 1611 Casper, Wyoming P. F. Cochran P. F. Cochran							
ddress P. O. Box 1611 Casper, Wyoning P. F. Cochran P. F. Cochran							
Casper, Wyoming By P. F. Cochran P. F. Cochran	I understand that this plan of work m	aust receive approval	in writing by the Ge	ological Sur	wey before opera	itions may be co	mmenced.
Casper, Wyoming By P. F. Cochran P. F. Cochran				ological Sur	vey before opera	ations may be co	mmenced.
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	ompany Union Ci.1 Compar ddress P. O. Box 1611	ny of Califo	rnia		Original S	gned 🔍	mmenced







Form approved. Budget Bureau No. 42-R359.4.

Indian Agency ... NATAJO

Allottee Mayajo Tribe
Lease No. 11-20-603-2055

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(SUBMIT IN TRIPLICATE)

		1 1 .		
NOTICE OF INTENTION TO DRILL			REPORT OF WATER SHUT-OFF	i
NOTICE OF INTENTION TO CHANGE PI	LANS		REPORT OF SHOOTING OR ACIDIZING	1
NOTICE OF INTENTION TO TEST WATE	R SHUT-OFF	SUBSEQUENT F	REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL O	R REPAIR WELL	SUBSEQUENT F	REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR	ACIDIZE	SUBSEQUENT F	REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR A	LTER CASING	SUPPLEMENTA	RY WELL HISTORY	I
NOTICE OF INTENTION TO ABANDON I	WELL		· .	
(INDICATI	E ABOVE BY CHECK MAR	RK NATURE OF REPORT,	NOTICE, OR OTHER DATA)	
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W NN 5W Sec. 29	(Twp.)	(Range)	Meridian)	
ildont		•		
(Field)	San Ju	ty or Subdivision)	(State or Territo	nrv)
KB	(000-	· • · · · · · · · · · · · · · · · · · ·	(2.1.1.0 02 11.1.1.1)	~~,
	DETA	evel is 4705. ft AILS OF WORK sizes, weights, and leng	ths of proposed casings; indicate mu	ıdding jobs, ceme
tate names of and expected depths to	DETA objective sands; show a ing points, and al	AILS OF WORK sizes, weights, and leng	ths of proposed casings; indicate mu osed work)	
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o shut off 1-1/2" was	DETA objective sands; shows ing points, and al ter flow, per ud th 150 sax	AILS OF WORK sizes, weights, and length other important prop	ths of proposed casings; indicate muosed work)	neesed off
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ate names of and expected depths to to shut off 1-1/2" was -5/8" casing annulus ob complete at 1:30 p	objective sands; shows ing points, and all the flow, per with 150 sex one. 8-25-66.	AILS OF WORK sizes, weights, and leng I other important prop formed braden regular ceme	ths of proposed casings; indicate muosed work) head squeeze and squeeze and squeeze and squeeze and squeeze	messed off
tate names of and expected depths to be shut off 1-1/2" was -5/6" casing annulus be complete at 1:30 p I understand that this plan of work ompany Union O11 Comp	objective sands; shows ing points, and all the flow, per with 150 sex one. 8-25-66.	AILS OF WORK sizes, weights, and leng I other important prop formed braden regular ceme	ths of proposed casings; indicate muosed work) head squeeze and squeeze and squeeze and squeeze and squeeze	messed off
tate names of and expected depths to to shut off 1-1/2" was -5/8" casing annulus ob complete at 1:30 p	objective sands; shows ing points, and all the flow, per with 150 sex one. 8-25-66.	AILS OF WORK sizes, weights, and leng I other important prop formed braden regular come	the of proposed casings; indicate muosed work) head squeeze and s	messed off

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UNITED STATES

DEPARTMENT OF INTERIOR GEOLOGICAL SURVEY

Aliottee	Nava jo
maile	. Navajo
Leage No	14-20-603-2055

LESSEE'S MONTHLY REPORT OF OPERATIONS

	State	Utah			Cour	_{iiv} San J	uan	Field	· · · · · · · · · · · · · · · · · · ·	Wildo	at
	Th	e follo	nving	is a c	crrect r	eport of oper	rations (and production	n (including	g drilling an	d producing wells) for
	Monin c Agent's	addaa		P. O.	Box	1611		Co	many	Union Oil	Company of California
	 Phone	········		23h-1	563	oming		Siz	gent's title	District	Office Manager
	Eec. and	Twp.	Range	Well No.	Days Pro- duced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In Thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	BEMARKS: (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE N Sec. Isma	29	Los	26E	29- B3	15	3,310	b3.0	3,214	***	7	Drilled 4,300° to 5,330°. DST No. 1-5,275° - 5,330°.
ne S Sec Isma	. 30	40 5	25E	30- D3		electric mented wi reducer. in service Bond Log. Lane-Well Set packed 15% with hole presergular aperfs 5.3 well. Puflowed 24.2% water Location: KB 4.884; Set 5 jts 50-50 Poz 9-27-66.	logs. th 250 Plug e rig Per: s NCF r at non-e: 3000 sure cid w 06: hour , 226 . 1,8 . Sp . 13= . Good	Set 172 Sax 50-50 Sax 50-50 Sax 50-50 Sax 50-50 Ran Land Forated 5, II, 4 sho 1,338 O The sale of the	ts. of 5 Diamix 15 a.m. -Wells 0 66 - 5, 5 per fo 9-18-66 On 9-19 11 CRA. On 9-20- lsifier bed well ng, set hoke, 15 75, CI 924 FA 30 p.m. sing at oride. Drilled	-1/2" cas "A", 10% 9-11-66. amma Ray 375' and ot. Ran acidized 56 Swabbed 66 inject plus 12 t in. Flo packer at 5 bbls. co 1,00. To P-26-66. 163'. Co Plug down to 1,709	Drilled to 5,375. ,550. TD. Ran ing at 5,549. Ce- salt and 1% friction Released rig. Moved Correlation Log and 5,306 5,319. with tubing and packer. with 2000 gals. reg. bbed well in. Acid- well in. Ran bottom ed 3000 gals. 15% bls. to spot opposite ued on test. Killed 5,286. 9-30-66 f fluid, 0.2% BS and sting - Incomplete. tions: GL 4,872.; Drilled to 167. mented with 140 sax at 11:10 p.m. Set 54 jts. of h 1200 sax 50-50
			Manager i van de	Assessment of the control of the con		Diamix "A Good retu	plu cns.	9 10% salt	Flug d	own at L	25 a.m. 9-30-66.

Note.—There were 3,128.00 bbls. runs or sales of oil; WO Mou. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329A (December 1948)

W

	TED STA	ATES SUBMIT IN TE CA (Other instruction on verse side)	TE* Form approved. Budget Bureau No. 42 5. LEASE DESIGNATION AND SERI
\mathbf{N}	GEOLOGICAL		Nava to 11-20-603-2
			6. IF INDIAN, ALLOTTES OR TRIB
SU	NDRY NOTICES AND I	REPORTS ON WELLS	
(Do not use th	is form for proposals to drill or to Use "APPLICATION FOR PERM	deepen or plug back to a different reservoir. IT—" for such proposals.)	Mavado
<i></i>			7. UNIT AGREEMENT NAME
OIL GAS	OTHER Drilling We		
2. NAME OF OPERATOR	VIDER SEASONS WE		S. FARM OR LEASE NAME:
T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ospany of California		
3. ADDRESS OF OPERA			9. WELL NO.
4 TOCHTION OF WELL	(Report leastly clearly and in accord	rdance with any State requirements.*	10. FIELD AND POOL, OR WILDCAN
See also space 17 b	elow.)		LA MERITA DE LA PERSONA
At surface 2,2	27' FSL and 2,072' FWI	(WM WM SM)	LL SEC. T. B. M. OR BLE. AND
			SURVEY OR AREA?
			50m 29. 7-408. R-
44 - 200 - 2	1 -	(Charge subothers not pay on the)	12 COUNTY OF PARISH 13. STA
14. PERMIT NO.		(Show whether DF, RT, GR, etc.)	3 4 5 6 4 7 2 4 5 4
<u> </u>	KB 4,79	D'	San Juan 2 Utal
	NOTICE OF INTENTION TO:	SOE	or Other Data
TEST WATER SHUT FRACTURE TREAT SHOOT OR ACIDIZE		SING WATER SHUT-OFF	
FRACTURE TREAT SHOOT OR ACIDIZE	PULL OR ALTER CAS	SURGER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACCIDING	REPAIRING WELL ALTERING CASING ABANDONMENT
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL	PULL OR ALTER CAS MULTIPLE COMPLET ABANDON®	SURGER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACCIDING	REPAIRING WELL ALTERING CASING ABANDONMENT
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	PULL OR ALTER CAS MULTIPLE COMPLET ABANDON* CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACTUZING (Other) (Note: Report for Completion or Rec	REPAIRING WELL ALTERING CASING ABANDONMENT: Sults of multiple completion on Well completion Report and Log form.)
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSED proposed work.	PULL OR ALTER CAS MULTIPLE COMPLET ABANDON* CHANGE PLANS OR COMPLETED OPERATIONS (Clearly s If well is directionally drilled, give	SURGER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACCIDING	REPAIRING WELL ALTERING CASING ABANDONMENTS Sults of multiple completion on Well completion Report and Log form.)
SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSED proposed work, nent to this work	PULL OR ALTER CAS MULTIPLE COMPLET ABANDON* CHANGE PLANS OR COMPLETED OPERATIONS (Clearly s If well is directionally drilled, give	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACTUZING (Other) (Note: Report for Completion or Rec	REPAIRING WELL ALTERING CASING ABANDONMENTS Sults of multiple completion on Well completion Report and Log form.)
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSED proposed work.	PULL OR ALTER CAS MULTIPLE COMPLET ABANDON* CHANGE PLANS OR COMPLETED OPERATIONS (Clearly s If well is directionally drilled, give	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACTUZING (Other) (Note: Report for Completion or Rec	REPAIRING WELL ALTERING CASING ABANDONMENTS Sults of multiple completion on Well completion Report and Log form.)

Going in hole to drill to TD, approximately 5,550'.

COUNTY COMED DV	,			
8. I hereby cer OF Gal VAL 101 College 18 CO	e and correct			
W. J. Mansbridge		TITLE DINE.	Drilling Supt.	рате Зеръ. 6, 1966
W. J. Manabridge				
(This space for Federal or State office us				
APPROVED BY	· •	TITLE		DATE
CONDITIONS OF APPROVAL, IF ANY:				

	(the second
Form 9-331 (May 1963) TED STATES SUBMIT IN CATT On 1	Pe- Duuget Dureau No. 42-411429
DEPARTMENT OF THE INTERIOR verse side)	5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY	Mavajo 14-20-603-2055 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	O. IF INDIAN, ADDOTTED OR TRIBE NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	
Use APPLICATION FOR PERMIT— to said proposate.	Navajo 7. Unit agreement name
OUL GAS C	
WELL WELL OTHER Drilling Well 2. NAME OF OPERATOR	S. FARM OR LEASE NAME
Union Oil Company of California 3. ADDRESS OF OPERATOR	9. WELL NO.
	29-83
P. O. Box 1611 - Casper, wyoming LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*	10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	Wildows .
2,227' FSL and 2,072' FWL (NW NW SW)	11. SEC., T., B., M., OR BLE. AND
	SURVEY OR AREA
	Sec. 29. T-105. R-265
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
KB 4,705'	San Juan Utah
· ·	
6. Check Appropriate Box To Indicate Nature of Notice, Report, or	Other Data
NOTICE OF INTENTION TO:	QUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE ABANDON* SHOOTING OR 'ACIDIZING	ABANDON MENT
DEPARE WELL CHANGE PLANS (Other) Supplement	al Well History X
(Note: Report resul	ts of multiple completion on Well apletion Report and Log form.)
When the state of	e including estimated date of starting an
To DESCRIBE PROPOSED OR COMPLETED OFERATIONS (Clearly state an pertinent details, and give pertinent date proposed work. If well is directionally drilled, give subsurface locations and measured and true vert nent to this work.)*	ical depths for all markers and zones perti
· ·	
Drilled to 5,550' TD. Ran Schlumberger Dual Induction and De	neity loge.
المراقع المراق المراقع المراقع المراق	
Ran DST No. 3 - 5,370' - 5,386'. Tool open 30 minutes, shut	in 50 minutes, tool open
15 minutes, shut in 15 minutes. Opened with strong blow. Re	mained strong phroughout
Gas to surface in 20 minutes, oil in 35 minutes. Recovered 5	TO TOO TOT TOT ONLY
	65 - 1023, IST 2034;
FF 1023 - 1023; FSI 2034; FN 2904; ENT 135°.	그리는 그 집 등 전 시간 선택하는 것으로 그 것이다.
and the same and t	And
Set 172 jts. of 5-1/2" 17# and 15.5# casing at 5,549'. Comen	VC-VC AMB VCS IN IN DOM
Diamix A, 10% salt and 1% friction reducer. Preceded with 50	o Ber. und amash. trof
down at 9:15 a.m. 9-11-66. Good returns throughout job.	
Rig released at 9:30 a.m. 9-11-66. Now preparing to move out	LOSSLA LIE WIG MOAS IN
service rig.	
8. I hereby companies the Special Brue and correct	
144 I Manabuldan	0.10.64
SIGNED W. J. Mansbridge TITLE District Drilling Supt	DATE 9-12-66
(This space for Federal or State office use)	
	The state of the s
APPROVED BY TITLE	DATE



SHOOT OR ACIDIZE

REPAIR WELL

TED STATES

ARANDON*

CHANGE PLANS

SUBMIT IN

SHOOTING OR ACIDIZING

(Other) Supplemental Well History

Form approved. Budget Bureau No. 42-R1

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	MENT OF THE INTER	RIOR verse side)	5. LEASE DESIGNATION	
	GEOLOGICAL SURVEY		Mavajo 14-2	
SUNDRY NO (Do not use this form for propuse "APPLIC	IICES AND REPORTS psals to drill or to deepen or plug ATION FOR PERMIT—" for such	ON WELLS back to a different reservoir.	6. IF INDIAN, ALLOTT	EE OR TBIBE NAME
OIL GAS WELL OTHER	Drilling Well		7. UNIT AGREEMENT N	
2. NAME OF OPERATOR			8. FARM OR LEASE NA	ME
Union Oil Company of C	ali feerda		Yamay	
3. ADDRESS OF OPERATOR	designation of the second second		9. WELL NO.	
P. O. Box 1611 - Caspe	r. Wrond na		29-33	
4. LOCATION OF WELL (Report location See also space 17 below.)	clearly and in accordance with an 2,072' PWL (ME NE S		10. FIELD AND POOL, 11. SEC., T., B., M., OR	BLK. AND
• ,			SURVEY OR ARE	408, R-26R
14. PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OR PARIS	H 13. STATE
	KB 4,705	·	Sen Juan	Utah
16. Check A		Nature of Notice, Report, o	r Other Data	
NOTICE OF INTE	NTION TO:	BUBS	EQUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING	CASING

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent.

Rigged up service rig. Ran Lane-Wells Correlation Log and Bond Log. Lane-Wells perforeted with & MCF II shots per foot from 5,366' to 5,375' and 5,306' to 5,319'. Ren 2-7/8" tubing. Located packer at 5,338' but did not set. Reversed water out of hole with 115.42 bbls. of oil. Swabbed well in. Recovered all load oil. Flowed well on test. Set packer at 5,338'. On 9-17-66 seidized with 2000 gals. 15% regular acid with non-empleifier. Injected oil at 600 to 800 pei for 2 hours. When said hit formation, went on vacuum. Injected 2000 gals. in 33 minutes at 50 psi. Swabbed well in. On 9-18-66 acidized with 3000 gale. Dowell CRA, 2-1/2 to 3 MM with 6 pai-Swabbed well in after 3 hours shut in time. Ployed on test until 3:30 p.m. 9-20-66 when well was shut in with bottom hole pressure recorder at 5,3701. Pulled recorder 9-21-66. Recorder showed 1300 pai extrapolated to 100 hrs. Louded hole with 138 bbls. of oil. Injected 3000 gals. 15% regular anid with non-emulaifier plus 12 bbls. to spot opposite perfs 5,3061 - 191. Injected 8 bbls. in formation in 2 hours and 10 minutes then rate degreesed to 2-1/2 to 3-1/2 bbls. per hour with surface pressure 800 pai. Still had 23 bbls. of soid, 966 gals., to inject after 15-1/2 hours at 7:00 a.m. 9-22-66.

18. I hereby certifor RIGINA or Silva Edra Vand correct			<u> </u>	
SIGNED W. J. Mansbridge	TITLE District Drilling	Supt.	DATE 9-22-66	
(This space for Federal or State office use)			-	
APPROVED BY	TITLE	 :	DATE	





UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

υ.	LEASE	DES	IGNATI	ON	AND	SEI	LIAL	N
		_	- 1					_

side)	5.	LEASE	DESIGNATION	AND	SERIAL
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8-21-66 9-9-66 10-5-66 KB 1,705'; GL 1,693' FORDICINE RECORD (STEWAL(8), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* PRODUCTION INTERVAL(8), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* PRODUCTION RECORD (RECORD (REPORT All strings set in seell) COMPRESSED WRIGHT, LD./FT. DEFTH SET (MD) AMOUNT FULL 13-3/8" LINER RECORD CASING RECORD (Report all strings set in seell) CASING RECORD (Report all strings set in seell) CASING RECORD (Report all strings set in seell) AMOUNT FULL 13-3/8" LINER RECORD AMOUNT FULL 13-3/8" LINER RECORD SIZE TOP (MD) BOTTOM (MD) BOTTOM (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) FREDOLUTION FR		<u> </u>	EOLOGICA	AL SURV	<u> </u>				14-20-603-2055
NYED OF COMPLETION: NYED OF COMPLETION: NAME OF OFFRACED PARTY OF OFFRACED TO OTHER ATOP NAME OF OFFRACED P. O. BOX 1611 - Casper, Wyoning LOCATION OF WILL (Report Ionation clearly and in accordance with any State requirements)* At surface 2,227' FSL and 2,072' FML (NE NE SW) At top Ind. interval reported below At total depth 14. FRANTI NO. DATE MERCHO 15. STATE DATE OFFRACED 14. FRANTI NO. DATE MERCHO 15. STATE 16. CASPER, AND STATE 16. CASPER, AND STATE 17. DATE OFFRACED 18. REMYATIONS (OF, RICE, RY, OR, RY), IN RICE COMPLETED 18. REMYATIONS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, RY, OR, RY), IN RICE CASPER 19. A TO OTHER ADDRESS (OF, RICE, RY, OR, OR, OR, OR, OR, OR, OR, OR, OR, OR	WELL CO	MPLETION (OR RECO	MPLETION	N REPO!	RT AND	LOG*		in the second se
THE CONTRACTOR WORK BY OVER BACK BACK BACK BACK BACK BACK BACK BACK	. TYPE OF WE		GAS	Day	7 Other				
WHILE SOUTH BY DECK ERVEL Other Union Oll Company of California P. O. Box 1611 - Casper, Wyoming P. O. Box 1611 - Casper, Wyoming Location of Well (Report location clearly and in accordance with any State requirements)* At top prod. Interval reported below At total depth At tota	. TYPE OF COM	•	WELL L	_ DRY C	_ Other _				
Union Oil Company of California ADDRESS OF OFERATOR P. O. BOX 1611 - Casper, Wyoming LOCATION of WILL (Report location clearly and is occordance with only State requirements)* At surface 2,227 FSL and 2,072 FWL (NE NE SW) At total depth B-21-66 9-9-66 10-5-66 10-5-66 RB 1,705 State RB 1,705 Sta					Other			S. FARM OR I	LEASE NAME
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At total depth					equirements)*				
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DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 8-21-66 9-9-66 10-5-66 KB 1,705*; GL 1,693* POPAL BEPTH, MD & TYD 21. PLUG, BACK T.D., MD & TYD 22. IF MULTIPLE COMPL	At top prod. in	terval reported below	v ,					1	
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V. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE	at ten day	average	6h/6h*	TEST PERIOR	11.6	BOPD 1	87 Est.	-0-	1280 Ret.
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as sales to VI Dags Wetwent Con Co. house 1.00 m = 13 0 66			l, vented, etc.)	1		-1 -02-24			
las sales to El Paso Hatural Gas Co. began 4:00 p.m. 11-9-66 Robert Davis	as sales t	o El Paso Na	tural Cas	Co. begi	an 4:00	p.m. 11-9	-66	Robert F	Davis
LIST OF ATTACHMENTS	LIST OF ATTACHM	1ENTS						, 	
One page - Drill Stem Tests		Total one par	e - Drill	. Stem Ter	sts	1			
I hereby certify in the legal and detached information is complete and correct as determined from all available records	I hereby certify	MATIN Asher Ships	nd attached inf	ormation is co	mplete and c	orrect as deter	mined from	all available rec	ords
BY HAROLD SIMPSON SIGNED Hand Stroom TITLE District Superintendent DATE 12-29-66		HAROLD SIM	rb. N		The mame	A - C			1000 44

Harold Simpson

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

Federal office for specific instructions.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hem 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

tem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Morrison Top Bater flow at 409' - no test. Morrison Morr	DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING					
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I smay 29-B3 NE NE SW Sec. 29, T-hOS, R-26E San Juan County, Utah Well Completion or Recompletion Report and Log

Union Oil Company of California

December 29, 1966

DST NO. 1 - 5,275' - 5,330' - Tool open 1 hr., shut in 1 hr., open 1 hr., shut in 1 hr. Tool opened with weak blow increasing to strong blow in 30 minutes. Remained strong throughout remaining one half hour and final hour. Gas to surface in 1 hour and 45 minutes. Recovered 360' of fluid - 180' highly gas cut drilling mud and 180' very highly oil and gas cut drilling mud with some free oil. Pressures: IH & FH 2937; IF 8 - 134; ISI 1734; FF 134 - 214; FSI 2001; BHT 135°.

DST NO. 2 - 5,330' - 5,375' - Tool open 30 minutes, shut in 1 hour. Opened with immediate strong blow, continued for 20 minutes. Gas to surface in 15 minutes. Oil to surface in 20 minutes. Continued to flow to end of 30 minute open period. Recovered 5,375' of gas cut oil. No water. Pressures: IH & FH 3023; IF 521; FF 939; FSI 2087.

DST NO. 3 - 5,370' - 5,386' - Tool open 30 minutes, shut in 30 minutes; open 15 minutes; shut in 15 minutes. Opened with strong blow. Remained strong throughout. Gas to surface in 20 minutes, oil in 35 minutes. Recovered 5,356' of highly gas cut oil and 30' of mud and oil cut water. Pressures: IH 2905; TF 265 - 1023; ISI 2034; FF 1023 - 1023; FSI 2034; FH 2904; BHT 135°



UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Buoket Balend Ho. 44-16300.0.
LAND OFFICE Nava jo Tribe
LEASE NUMBER NAVA 10
UNIT 14-20-603-2055

Form approved.

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DIVISION OF OIL	MONTHLY REPORT	-	11	
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State	9Jit				ounty					
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wells) fo	or th	e mor	th of	• <u>Se</u> 1	ptember		., 197.5,	**		amanu of Californi
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			Ca	sper.	wyoming o	2001	Sig	ned	Chicf	Dungan
Phone				11-234	- 1563		Ag	ent's title.		
Sec. and 14 of 14	Twp.	RANGE	WELL No.	DATE PRODUCED	Barris of Oil	GRAVITY	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
C. 29 NW	40s	26E	29=				•			Pumping
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c. 30										
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-	F	UEL	•	1.00	,		Unav			
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				656,6			sales of oil;	360)	M ou. ft. of gas sold;

	UNITED STATES
(8)	DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY
	GEOLOGIOTE CONTEN

Form 9-329 Rev. Feb 76
OMB 42-RO356

MONTHLY REPORT
OF
OPERATIONS

Lease No	21-2	····	
			
Communit	lization Agreement No		
Field Nam	South Ismay		
Unit Name	e		
	San Juan		
	Union Oil Co. of		
Unit Name Participati County	e n g Area San Juan	State <u>Utah</u>	

□ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of September . 19 77

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), abutting down operations, or basis for recommendation to cancel the lease and forfait the bond (30 CFR 221.53).

West Sio.	Sec. & 16 of 14	TWP	RNG	_Status	Days Prod.	®Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
29-B3	Sec .29 NE NW	40s	26E	POW	30	320	164	150	
30-D3	Sec.30 NE SE	40s	26E	osi		None	None	None	Oper. Suspended Temp. 11-6-66.
			-						
			. `					1917	PET 2/6 1977
					.*	·		The second	

*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

District Chief Clerk

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
#On hand, Start of Month	612.49	**************************************	XXXXXXXXXXXXXXXXXXXXXXXX
*Produced	320.30	164	150
≱Sold	439.21	54	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	None	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX
*Flared or Vented	**************************************	None	XXXXXXXXXXXXXXXXX
*Used on Lease	None	110	XXXXXXXXXXXXXXXXXXX
*Injected	None	None	None
*Surface Pits	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	150
*Other (Identify)	None	None	None
#On hand, End of Month	493.58	XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content	42.1	None	******

Page <u>1</u> of <u>1</u>

Form 9-331 Dec. 1973

Form Approved. Budget Bureau No. 42-R1424

UNITED STATES DEPARTMENT OF THE INTERIOR

UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE Navajo 14-20-603-2055
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Na vajo
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil no gas	Ismav
well Well other	9. WELL NO.
2. NAME OF OPERATOR	29-B3
Union Oil Company of California	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	Undesignated-Lower Ismay
P. O. Box 2620 - Casper, WY 82602 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.) AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)	Sec. 29, T.40S., R.26E.
	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	San Juan Utah
	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	4705' KB; 4693' GL
TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinent.	e all pertinent details, and give pertinent dates, irectionally drilled, give subsurface locations and to this work.)*
5550' T.D. DIVISION OF 13-3/8" @ 159' 8-5/8" @ 1509' 5-1/2" @ 5549'	Drilled in 1966. Perfs: 5306-5319' 5366-5375'
MIRU service unit on 5-12-81. Unseated pump. P00H with rods and tubing. Perforated from 5 w/4" casing gun. Tagged ETD at 5474'. Tagge 4300'. Picked up bridge plug and packer. TI No failures. Set bridge plug at 5350' and paplug to 4000#. Reset packer at 5274'. Treat gallons 28% HCl and 3000 gallons spacer.	3306-5319' & 5322-5326', 2 spf, ed fluid before and after at H. Internally tested to 6000#. cker at 5340'. Tested bridge ed perfs 5306-5326' with 2200 (CONTINUED ON ATTACHED SHEET)
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED R. G. Ladd. Jr. District Dril R. G. Ladd. Jr. Superintenden	ling DATE 6-2-81
(This space for Federal or State off	ice use)
William and	DATE
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	

U.S. Geological Survey Form 9-331

Union Oil Company of California Navajo (Ismay) Well No. 29-B3 San Juan County, Utah 6-2-81 Pg. 2

Initial injection rate, 6 bpm at 4000#. Rate decreased from 6 to 0 bpm as formation slowly plugged off. Circulated out unspent acid with 120 BW. SION. Casing pressure 75#. Bled down in 5 minutes. Tagged fluid at 4500'. Swabbed 2 BO & 4 BW with a considerable amount of gas in 6 hours. Swabbed dry. Retrieved bridge plug and POOH. SION.

Ran and landed tubing at 5393.54. Ran rods. Returned well to production on 5-15-81. Well pumped up and engine died. Repaired engine. Returned to production on 5-29-81. Testing.

Form A	pproved		
Budget	Bureau	No.	42-R1424

- P PEGE	
Form 9–331 Dec. 1973 UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	Form Approved. Budget Bureau No. 42–R1424
DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	Vavajo 14-20-603-2055 6. If INDIAN, ALLOTTEE OR TRIBE NAME Navajo
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a deepen reservoir, Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME
1. oil gas other	Ismay 9. WELL NO.
2. NAME OF OPERATOR Union Oil Company of California 3. ADDRESS OF OPERATOR	29-B3 10. FIELD OR WILDCAT NAME Undesignated-Lower Ismay
P. O. Box 2620 - Casper, WY 82602 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.) AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW) AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	Sec. 29, T.40S., R.26 E. 12. COUNTY OR PARISH 13. STATE San Juan Utah 14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is di measured and true vertical depths for all markers and zones pertinent	rectionally drilled, give subsurface locations and
(See Notice Dated 6-2-81)	
Recovered all oil and water load.	
Production Before Workover: (January, 1981) Production After Workover: Average Pate of	MCFD gas.

Subsurface Safety Valve: Manu. and Type _____

Pumped 9 BOPD + 5 BWPD + 3 MCFD gas.

18. I hereby certify that the foregoing is true and correct

TITLE District Drilling DATE _
r. Superintendent (This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY: Union Oil Company of California Ismay Well No. 29-B3 San Juan Co., Utah 1-20-86 Page 2

- 4. N.D. BOP and weld 5-1/2" lift sub. R.U. wireline and calculate free point from casing stretch. Cut off 5-1/2" casing (approximately 4000') and POOH.
- 5. TIH with 2-7/8" tubing open ended to casing stub, and spot 50 sacks of cement (Plug No. 2) 150' in stub and 150' out of stub (300').
- 6. P.U. to 1584' and spot 50 sacks of cement (Plug No. 3) from 1584-1434', 75' in and 75' out of 8-5/8" casing shoe (150').
- 7. P.U. to 60'. Spot 20 sacks of cement (Plug No. 4) from 60' to surface.
- 8. Cut off surface casing 4' below ground level and install dry hole marker.
- 9. Release equipment. Clean up and recontour road and location, and reseed location.

Form Approved. Budget Bureau No. 42-R1424

5. LEASE

Navajo 14-20-603-2055 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

DATE: \$-3

UNITED STATES DEPARTMENT OF THE INTERIORS! GEOLOGICAL SURVEY

V_J~	Navajo	
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT N	AME
(Do not use this form for proposals to drill or to deepen capsuage back to a different reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAM	IE
1. oil gas	Ismay	
well well other	9. WELL NO.	
2. NAME OF OPERATOR	29-B3	
Union Oil Company of California	10. FIELD OR WILDCAT N	AME
3. ADDRESS OF OPERATOR	Undesignated-Lo	ower Ismay
P. O. Box 2620-Casper, WY 82602 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR B AREA	LK. AND SURVEY OR
helow)	Sec. 29, T.40S	R.26E.
AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)	12. COUNTY OR PARISH	
AT TOP PROD. INTERVAL:	San Juan	Utah
AT TOTAL DEPTH:	14. API NO.	
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,		
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW 4705' KB; 4693	The state of the s
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	4700 KD, 4090	GLi
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL TEST WATER SHUT-OFF REPAIR WELL TEST WATER SHUT-OFF TEST WATER S	(NOTE: Report results of mu	iltiple completion or zone
PULL OR ALTER CASING	change on Form 9-3	330.)
MULTIPLE COMPLETE		
CHANGE ZONES		
(other)		:
		·
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is di measured and true vertical depths for all markers and zones pertinen	rectionally drilled, give sub-	give pertinent dates, surface locations and
5550' T.D.	Drille	ed in 1966.
13-3/8" @ 159'	DELLEC	5d III 1500.
8-5/8" @ 1509'		
5-1/2" @ 5549'		
3 1/2 6 3343		
PROPOSED PLAN OF PROCEDURE:		
MIRU service unit. POOH with rods. Install bridge plug and packer. RIH with 2-7/8" tubi		
Set packer and test plug to 5000 psi. Re-set	packer at 5275'.	Acidize perfs
5306-5326' with 4000 gallons 28% HCl acid. S	Swab well back unti	il clean. Re-
lease packer and retrieve bridge plug. POOH.		
Note: Received verbal approval of above prod		
Farmington, New Mexico, on 7-21-81.	•	
Subsurface Safety Valve: Manu. and Type	Set	@ Ft.
,		
18. I hereby certify that the foregoing is true and correct	7.0	21-81
SIGNED Slemm C Institution Drilling Engi	DATE	T-0T
Glenn C. Fredrick (This space for Federal or State offi	Ce (ISE)	· · · · · · · · · · · · · · · · · · ·
(This space for rederal or state offi		BY THE STAT
APPROVED BY TITLE		DIVISION OF
CONDITIONS OF APPROVAL, IF ANY:	• • • • • • • • • • • • • • • • • • • •	
	UIL, GAS,	AND MINING

Form 9-331 Dec 1973

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Form Approved.

Budget Bureau No. 42-R1424 UNITED STATES 5. LEASE Navajo 14-20-603-2055 DEPARTMENT OF THE INTERIOR 6. IF INDIAN, ALLOTTEE OR TRIBE NAME GEOLOGICAL SURVEY Navajo 7. UNIT AGREEMENT NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.) 8. FARM OR LEASE NAME Ismav \mathbf{X} 9. WELL NO. well well other ž. 29-B3 2. NAME OF OPERATOR 10. FIELD OR WILDCAT NAME Union Oil Company of California Undesignated-Lower Ismay 3. ADDRESS OF OPERATOR 11, SEC., T., R., M., OR BLK. AND SURVEY OR P. O. Box 2620 - Casper, WY 82602 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 Sec. 29, T.40S., AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW) 12. COUNTY OR PARISH 13. STATE AT TOP PROD. INTERVAL: San Juan Utah AT TOTAL DEPTH: 14. API NO 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF REPORT, OR OTHER DATA 15. ELEVATIONS (SHOW DF, KDB, AND WD) 4705' KB: 4693' GL SUBSEQUENT REPORT OF: REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF FRACTURE TREAT X SHOOT OR ACIDIZE REPAIR WELL (NOTE: Report results of multiple completion or zone change on Form 9-330.) PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* (other) (AMENDED NID) DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* - 13-3/8" @ 1591 5550' T.D. 8-5/8" @ 1509' Drilled in 1966 5-1/2" @ 5549' PROPOSED PLAN OF PROCEDURE: MIRU service unit. POOH with rods. Install BOP. POOH with tubing. Pick up bridge plug and packer. RIH with 2-7/8" tubing. Set bridge plug at 5350'. Set packer and test plug to 5000 psi. Re-set packer at 5275. Break down perfs 5306-5326' with 1500 gallons MSR acid, diverted with ball sealers. Swab back. Acidize perfs 5306-5326' with 4000 gallons 28% HCl acid. Swab well back until clean. Release packer and retrieve bridge plug. POOH. Run production equipment. Received verbal approval of above procedure from John Keller, USGS, Farmington, New Mexico, on 7-22-81. Set @ Subsurface Safety Valve: Manu. and Type 18. I hereby certify that the foregoing is true and correct TITLE District Drilling DATE Superintendent (This space for Federal or State office use)

Form Approved. Budget Bureau No. 42-R1424

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

5. LEASE
Navajo 14-20-603-2055
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
\\Navajo

AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	44 / / / / / / / / / / / / / / / / / /
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND, WD)
	4705' KB; 4693' GL
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	
SHOOT OR ACIDIZE	
REPAIR WELL	(NOTE: Report results of multiple completion or zone change on Form 9-330.)
PULL OR ALTER CASING U U U U U U U U U U U U U U U U U U U	change on Form 9-330.)
CHANGE ZONES	
ABANDON*	
(other) Break Down Perfs & Acidize	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is di measured and true vertical depths for all markers and zones pertinent	rectionally drilled, give subsurface locations and
	13-3/8" @ 159'
5550' T.D. Drilled in 1966	8-5/8" @ 1509'
Perfs: 5306-5319', 5322-5326', & 5366-5375'	5-1/2" @ 5549'
10118. 3300 3313 , 3311 3310 , 1 3000 3013	
MIRU service unit on 7-22-81. POOH with rods tubing. Set retrievable bridge plug at 5350'	
	and packet as so is v
retrievable bridge plug to 5000#. Reset pack	er at 5275'. Acidized Ismay
retrievable bridge plug to 5000#. Reset pack	er at 5275'. Acidized 1smay ns 28% HCl acid, diverting
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5,	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100-
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KC1	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KC1 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m	ns 28% HC1 acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KC1 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m fluid + 4 BO + 20 BW with some acid gas.	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at ins. 800#. Swabbed 24 bbls.
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KCl 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m fluid + 4 BO + 20 BW with some acid gas. (CONTINUED ON ATTAC	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at ins. 800#. Swabbed 24 bbls.
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KC1 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m fluid + 4 BO + 20 BW with some acid gas. (CONTINUED ON ATTAC Subsurface Safety Valve: Manu. and Type	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at ins. 800#. Swabbed 24 bbls. HED SHEET)
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KC1 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m fluid + 4 BO + 20 BW with some acid gas. (CONTINUED ON ATTAC Subsurface Safety Valve: Manu. and Type 18. I hereby certify that the foregoing is true and correct	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at ins. 800#. Swabbed 24 bbls. HED SHEET) Set @Ft.
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KC1 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m fluid + 4 BO + 20 BW with some acid gas. (CONTINUED ON ATTAC Subsurface Safety Valve: Manu. and Type 18. I hereby certify that the foregoing is true and correct	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at ins. 800#. Swabbed 24 bbls. HED SHEET) Set @Ft.
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KCl 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m fluid + 4 BO + 20 BW with some acid gas. (CONTINUED ON ATTAC Subsurface Safety Valve: Manu. and Type 18. I hereby certify that the foregoing is true and correct SIGNED R. G. Ladd, Jr.	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at ins. 800#. Swabbed 24 bbls. HED SHEET) Set @Ft.
retrievable bridge plug to 5000#. Reset pack perfs 5306-5319' & 5322-5326' with 1500 gallowith 350# BAF & 350# fine grade salt, at 3.5, 4300-3700#. Overflushed with 15 bbls. 2% KC1 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 m fluid + 4 BO + 20 BW with some acid gas. (CONTINUED ON ATTAC Subsurface Safety Valve: Manu. and Type 18. I hereby certify that the foregoing is true and correct	ns 28% HCl acid, diverting 2.5, and 3.3 bpm, at 3100- water at 3.3-3.2 bpm, at ins. 800#. Swabbed 24 bbls. HED SHEET) Set @Ft. ling DATEFt.

Form 9-331 Dec. 1973

UNITED STATES

Form A	pproved		
Budget	Bureau	No.	42-R1424

5. LEASE

DEPARTMENT OF THE INTERIOR	Navajo 14-20-603-2055
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Navajo Navajo
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME
1. oil gas	Ismay
well well other	9. WELL NO.
2. NAME OF OPERATOR	29-B3
Union Oil Company of California	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR P. O. Box 2620 - Casper, WY 82602	Undesignated-Lower Ismay 11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	AREA Sec. 29, T.40S., R.26E.
AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	San Juan Utah
	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
	4705' KB; 4693' GL
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE	State of the state
CHANGE ZONES	AUG 1 4 1381
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statincluding estimated date of starting any proposed work. If well is different and true vertical depths for all markers and zones pertinent	e all pertinent details, and give pertinent dates, irectionally when give subsurface locations and OHL, GAS'S MINING
(See Notice dated 8-7-81)	
Recovered all load water on 8-8-81 and all 10	oad oil on 8-9-81.
	Production During June, 1981 - 5 BWPD + 3 MCFD gas.
Production After Workover: 8-11-81: Pumper	d 26 BO + 5 BW + 15 MCF/24 hrs.
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
	ling 8-12-81
SIGNED R. G. Ladd, Jr. TITLE Superintenden	ling DATE 8-12-81
(This space for Federal or State off	ice use)
APPROVED BY TITLE	DATE

J-5 ser 198 merly 9-3	33) 331) DEPA F	UT TED STATE	S INTERIOR	SUBMIT IN TRIPLI (Other instructions verse side)	Porm approved. Budget Bureau No. 1004 Expires August 31, 1985 LEASE DESIGNATION AND SERIA	
		REAU OF LAND MANA		•	Navajo 14-20-603-	2055
(Do not	SUNDRY No	OTICES AND REPOPULATION FOR PERMIT—"	ORTS ON	WELLS a different reservoir.	6. IF INDIAN, ALLOTTEE OR TEIBE Navajo	NAME
OIL X	GAS OTHE		for such propos	ECEIVED	7. UNIT AGREEMENT NAME	
2. NAME OF OP	EBATOR	y of California	•	JAN27 1986	8. FARM OR LEASE NAME ISMAY	
3. ADDRESS OF	OPERATOR				9. WELL NO.	
P. 0	. Box 2620 -	Casper, WY 82602	2-2620	IVISION UF OIL	29-B3	
4. LOCATION OF See also spa At surface	WELL (Report location of the location of the low.)	on clearly and in accordance	with any State	AS & MINING	10. FIELD AND POOL, OR WILDCAT Undesignated-Lower	Isma
	2227' FSL	& 2072' FWL (NE	NE SW)		11. SHC., T., R., M., OR BLK. AND SURVEY OF ARMA Sec. 29, T.40S., R.2	26E
14. PERMIT NO.		15. ELEVATIONS (Show	whether DF. RT. GR	. etc.)	12. COUNTY OR PARISH 13. STATE	
API No	. 43-037-2011		05' KB; 46	, ,	San Juan Utah	
16.						
	NOTICE OF IN	Appropriate Box To In	alcate Nature		r Other Data	
TEST WATE		PULL OR ALTER CASING MULTIPLE COMPLETE		WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING WELL ALTERING CASING	-
SHOOT OR A	CIDIZE	ABANDON*	X	SHOOTING OR ACIDIZING	ABANDONMENT*]
REPAIR WEL	L	CHANGE PLANS		(Other) (Note: Report rest Completion or Reco	nits of multiple completion on Well impletion Report and Log form.)	_]
17. DESCRIBE PRO proposed nent to thi	POSED OR COMPLETED work. If well is dires s work.)	operations (Clearly state a sectionally drilled, give subsu	ll pertinent detai rface locations ar	ls, and give pertinent da nd measured and true ver	tes, including estimated date of startin tical depths for all markers and zones	ig any perti-
5550	' T.D.			Drilled	in 1966	
	8" @ 1509'			Perfs:	5306-5319')	
	2", 17# @ 541				5322-5326') - Lower Ism	ıay
5-1/:	2", 15.5# @ 5	417'-sfc			5366-5375')	
Unio	n Oil Compar	y of California	proposes	to plug and	abandon Ismay (Navajo)	

Well No. 29-B3. Production has declined on this well and sufficient production for good economics is not available.

Proposed Plan of Procedure

- 1. MIRU. N.U. BOP. POOH with pump and rods.
- 2. Release tubing anchor catcher and TOOH with 2-7/8" tubing.
- P.U. 2-7/8" tubing and TIH open ended to 5434' ETD. Spot 30 sacks cement (Plug No. 1) from 5423-5173' (covering perfs 5306-5375'). POOH with 2-7/8" tubing.

(Continued on Attached Sheet)

18. I hereby certify that the tolegoing is true and correct SIGNED R. G. Ladd, Jr.	TITLE _	District Drilling Supt.	DATE 1-20-86
(This space for Federal or State office use)		•	
APPROVED BY	TITLE _	ACCEPTED	BYTHE STATE
Federal approval of this action is required before commencing *Secondary *Sec	e Instruct	OF LITAH	AND MINING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willful You have to any department or a United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. artment or agency of the U.S. Geological Survey Form 9-331

Union Oil Company of California Navajo (Ismay) Well No. 29-B3 San Juan County, Utah 8-7-81 Pg. 2

Ran swab and tagged fluid level at 4900'. Swabbed 1 BO + 2 BW with acid gas in 4 hours. Swabbed dry. Unseated packer. RIH and retrieved RBP. RIH and set RBP at 5412' & packer at 5402' for pressure test. Tested RBP at 5000#. Reset packer at 5275'.

Treated perfs 5306-5319', 5322-5326', and 5366-5375' with 4000 gallons 28% HCL acid and 5625# KCl at 4200-1800-2600-2500# at 7-10 bpm. ISIP 1500#. 5 mins. 650#. 10 mins. 500#. 15 mins. 300#. On vac. 30 mins. Swabbed 88 bbls. fluid with F.L. 2300-2100' in 4 hours, cut 10% oil.

Swabbed 88 bbls. fluid in 10 hours, cut 10% oil, F.L. 2400-3900'.

Swabbed 60 bbls. fluid in 4 hours, cut 10% oil, F.L. 3700-4000'. Released packer. Retrieved RBP and POOH with straddle assembly, 7-29-81. Ran production equipment on 7-30-81. Hung well on at 5:00 p.m., 7-30-81.

8-1-81: Pumped O BOPD & 100 BWPD.

8-2-81: Pumped 0 BOPD & 75 BWPD. Have recovered 26 of 70 BLO.

Recovering load.

Form 3160-5 November 1983) Form (y 9-331)

O STATES SUBMIT IN TRIP OF THE INTERIOR (Other instruction verse aide) ED STATES

WATER SHUT-OFF

FRACTURE TREATMENT

rorm ap	proved.	
Budget	Bureau No.	1004-013
Expires	August 31,	1985

BUREAU OF LAND MANAGEMENT

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SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRI
not use this form for proposals to drill or to deepen or plug back to a different reservoir.	Navaio

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	Navajo 7. UNIT AGREEMENT NAME	
OIL X GAS OTHER		
2. NAME OF OPERATOR	8. FARM OR LEASE NAME	
Union Oil Company of California	Ismay	
3. ADDRESS OF OPERATOR	9. WELL NO.	
P. O. Box 2620 - Casper, WY 82602-2620	29-B3	
t. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCAT Undesignated-Lower Ismay	
2227' FSL & 2072' FWL (NE NE SW)	11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA	
	Sec. 29, T.40S., R.26E.	
4. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE	
API No. 43-037-20116 4705' KB; 4693' GL	San Juan Utah	
6. Check Appropriate Box To Indicate Nature of Notice, Report, o	r Other Data	

SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING REPAIR WELL CHANGE PLANS (Other) (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* 5550' T.D. 8-5/8" @ 1509' 5-1/2", 17# @ 5417-5549' 5-1/2", 15.5# @ 5417'-sfc

TEST WATER SHUT-OFF

FRACTURE TREAT

NOTICE OF INTENTION TO:

Drilled in 1966 Perfs: 5306-5319')

SUBSPOURNT REPORT OF :

5322-5326') - Lower Ismay 5366-5375')

REPAIRING WELL

ALTERING CASING

Plugged and Abandoned Subject Well as Follows:

PULL OR ALTER CASING

MULTIPLE COMPLETE

MIRU well service unit on 4-7-86. Unseated pump and POOH, laying down rods and pump. N.D. wellhead. N.U. BOP. Released anchor catcher and strapped out of hole, laying down production equipment.

TIH with 2-7/8" tubing open ended to 5423'. Set down on fill. Spotted 30 sacks of cement from 5422-5172' (Plug No. 1). Displaced with 9.2#/gal. mud-laden fluid. P.U. to 3800'. Spotted 30 sacks of cement from 3800-3550' ((Plug No. 2). POOH, laying down and standing back tubing.

SICP 0 psi/14 hours. N.D. BOP. N.D. tubing spool. Welded on 5-1/2" pull nipple. Picked up on 5-1/2" casing and calculated free point at 1900'. 5-1/2" casing with jet cutter at 1800'. P.O. and laid down 54 joints and

(Continued on Attached Sheet)

18. I hereby certify that the foregoing is true and corre	et .		
SIGNED R. G. Madd. Jr	TITLE Dis	trict Drilling Supt.	DATE 4-11-86
(This space for Federal or State office use)			
APPROVED BY	TITLE	ACCEPTE	D'BY THE STATE
CONDITIONS OF APPROVAL, IF ANY:		OF UTA	AH DIVISION OF
			AS, AND MINING
•	See Instructions o	on Reverse Side DATE:	-15-86
Title 18 U.S.C. Section 1001, makes it a crime for United States any false, fictitious or fraudulent st	any person knowi atements or repres	ngly and willfully to make to any	department or agency of the

Union Oil Company of California Ismay Well No. 29-B3 San Juan County, Utah 4-11-86 Page 2

2 pieces (1798') of 5-1/2" casing. TIH with 2-7/8" tubing open ended. Spotted 50 sacks of cement from 1950-1650' (Plug No. 3). Displaced with 9.2#/gal. brine. P.U. and spotted 50 sacks of cement from 1584-1334' (Plug No. 4). P.U. and spotted 20 sacks of cement from 60' to surface (Plug No. 5). Cut off 8-5/8" casing 4' below ground level. Welded cap on 8-5/8" casing and installed P&A marker.

Well plugged and abandoned on 4-9-86.

 $\underline{\underline{\text{Note}}} \colon A$ sundry notice will be submitted as soon as the location is ready for inspection.